9300194

THE CONTRES OF AMERICA

TO ALL TO WHOM THESE PRESENTS; SHALL COME;

Ohio Agricultural Research and Aspa-ARS Tolkereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF LIGHTLEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT

Y THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS

OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS.

THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

Waived, except that this waiver shall not apply to breeder seed,

dation seed, labeling requirements, and blending limitations)

SUNREAN

SOYBEAN 'Charleston'

In Lestimony Watercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 29th day of September in the year of our Lord one thousand nine hundred and ninety-five.

Allosh

Moster A. Stender

Commissioner

Plant Variety Protection Office Agricultural Marketing Service Whileman Selvetary of Agriculture Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget; Paperwork Reduction Project (OMB #0581-0055), Washington, 20250.

FORM APPROVED: OMB 0581-0055, Expires 1/31/91

	3033), Washington, 20230.	FORM APPROVED:	: OMB 0581-0055, Expires 1/31/91
APPLICATION FOR PLANT VARIE (Instructions of	TY PROTECTIO	N CERTIFICATE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421) Information is held confidential until certificate is resent (7 U.S.C. 2421)
NAME OF APPLICANT(S) (as it is to appear on the Certificate)	i reverse)	<u> </u>	certificate is issued (7 U.S.C. 2426).
Ohio Agricultural Research and Deve	.1	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.	3. VARIETY NAME
Center and USDA-ARS	Elopment	11005 6707	
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)		HC85-6724	Charleston
Ohio Agricultural Research and Deve	1	5. PHONE (Include area code)	FOR OFFICIAL USE ONLY
Center Center	eropment	216 262 2075	PVPO NUMBER
1680 Madison Avenue		216-263-3875	9700104
Wooster, OH 44691			9300194
######################################			F Date
6. GENUS AND SPECIES NAME	1		April 9, 1993
Glycine max	7. FAMILY NAME (Botania		Time
Glycine max	Leguminosa	e	Ğ
8. CROP KIND NAME (Common Name)	1	DATE OF DETERMINATION	F Filing and Examination Fee:
Combon	"		£ 2325.00
Soybean		2/15/91	S Date
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGA	ANIZATION (Corporation, part	nership, association, etc.)	f April 9, 1993
Agricultural Experiment Station			C Certificate Fee:
11. IF INCORPORATED, GIVE STATE OF INCORPORATION	····		: 275 00
The state of the s	12. DA	TE OF INCORPORATION	V Date
· · · · · · · · · · · · · · · · · · ·			5 AUG. 4, 1995
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO	SERVE IN THIS APPLICATION	N AND RECEIVE ALL PAPERS	[0 [7486. + , 7743
Ohio Agricultural Research and Deve. Wooster, OH 44691 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Fo. a. X Exhibit A, Origin and Breeding History of the Variety. b. X Exhibit B, Novelty Statement. c. X Exhibit C. Objective Description of Variety. d. Exhibit D, Additional Description of Variety. e. X Exhibit E, Statement of the Basis of Applicant's Ownerst	llow INSTRUCTIONS on revers	PHONE (Include area cod	e): 216-263-3875
Seed Sample (2,500 viable untreated seeds). Date Seed		grioty Protoction Office	
g X Filing and Examination Fee (\$2,150) made payable to "	Treasurer of the United Sta	los "	
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SO	The assist of the Onlied Sta	tes.	
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SO Protection Act.) YES (II "YES." answer items 16 and 17 be	TO BY VARIETY NAME ONLY	AS A CLASS OF CERTIFIED SEED? (See	e section 83(a) of the Plant Variety
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS)," skip to item 18 below)	
NUMBER OF GENERATIONS?	10 17. IF "YES" TO	ITEM 16, WHICH CLASSES OF PRODUC	CTION BEYOND BREEDER SEED?
X YES NO	X FOU	DATION X REGISTE	RED X CERTIFIED
19 DID THE ADDITIONATION	1		NT CERTIFIED
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VA YES (If "YES," through Plant Variety Protection Act NO	Patent Act. Give date		
19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR N	ARKETED IN THE U.S. OR O	HER COUNTRIES?	
X YES (If "YES," give names of countries and dates) NO	USA January	1, 1993	
20. The applicant(s) declare(s) that a viable sample of basic se request in accordance with such regulations as may be appl	eds of this variety will l	e furnished with the application	n and will be replenished upon
The undersigned applicant(s) is (are) the owner(s) of this uniform, and stable as required in section 41, and is entitle Applicant(s) is (are) informed that false representation here	sexually reproduced no d to protection under the	provisions of section 42 of the P	s) that the variety is distinct, lant Variety Protection Act.
SIGNATURE OF APPLICANT [Owner(s)]	CAPACITY OR TI	ÎLE	DATE
Richard Looper	Plant B	reeder	1/4/93
SIGNATURE OF APPLICANT (Owner(s))	CAPACITY OR TI	LE	DATE
•			1

FORM CSSD-470 (5-89) Edition of FORM LS-470, 3-86 is obsolete

Charleston

Exhibit A

Origin and Breeding History of the Variety

Charleston soybean [Glycine max (L.) Merr.] is an F4 plant selection from the cross of two determinate semidwarf breeding lines, HC74-634RE x HC78-676. HC74-634RE is from the cross Williams x Ransom and HC78-676 from the cross L70T543G x L74D-619. L70T543G is an indeterminate line from the cross L15 x Amsoy 71 and L74D-619, a determinate semidwarf line from a Williams x Ransom cross. L15 is a phytophthora resistant (Rps₁) backcross line of Wayne. cross was made in 1982 by R. L. Cooper, USDA, ARS Research Agronomist at the Ohio Agricultural Research and Development Center (OARDC), Wooster, OH. F_{1} was grown in the Puerto Rico winter nursery in the winter of 1982-83 and the F_2 grown at OARDC in 1983. Single pods were pulled from the F_2 plants and advanced by single seed descent to the F4 in Puerto Rico in the winter of 1983-84. Single F_4 plants were harvested in Puerto Rico and planted as F_4 derived F_5 observation rows at OARDC in 1984. Of 14 $F_{4.5}$ lines, 12 lines were advanced for yield testing as $F_{4.6}$ lines in 1985 in one-row, unbordered plots. Eleven of these 12 lines were advanced for yield testing in the F_7 in bordered row plots in 1986. Ten of these lines were advanced for yield testing in replicated plots at Wooster and S. Charleston, OH in 1987. on its superior yield performance, the line HC85-6724 was entered in the 1988 Regional Prelim III Test. HC85-6724 was advanced to the Uniform Regional Test III, Northern States in 1989 and was tested from 1989 thru 1991 in Delaware, Iowa, Illinois, Indiana, Kentucky, Kansas, Maryland, Missouri Nebraska, New Jersey, Ohio, Pennsylvania and South Dakota. Based on the results of these regional yield trials, 0.2 hectares of Breeder's Seed increase of HC85-6724 was planted by Ohio Foundation Seeds at Croton, OH in 1991 to produce 600 kg of seed in anticipation of potential release. HC85-6724 was released in 1992 and Breeder's Seed was distributed to the releasing states of Ohio, Iowa and Missouri. HC85-6724 was named Charleston after the OARDC Western Branch Experiment Station at S. Charleston, OH, with publicity release August 1, 1992.

Variants observed during the development of this variety were few. In the 1991 increase of Breeder's Seed, no variants were observed except for those few that might be traced back to slight admixtures resulting from incomplete combine clean out and these plants were rogued out. Variants resulting in future generations should be within allowable Certification maximums.

Charleston

Exhibit B

Novelty Statement and Botanical Description of the Variety

Charleston is a determinate (dt_1dt_1) semidwarf variety of Group III maturity. It matures 2 days later than the determinate semidwarf varieties, Sprite 87 and Hobbit 87, and can be distinguished from these white flowered varieties by its purple flowers. Charleston can be distinguished from indeterminate cultivars by its determinate growth habit, resulting in a terminal pod cluster and shorter plant height. It differs from Southern determinate varieties by an early flowering gene, e_1 . The $dt_1dt_1e_1e_1$ genotype results in the semidwarf phenotype of Charleston and other semidwarf varieties. Charleston is highly tolerant to Phytophthora root rot but does not have major gene resistance to this disease.

Charleston was developed specifically for high yield environments where early lodging frequently limits the yield of taller indeterminate varieties. Because of its smaller plant size and greater lodging resistance, Charleston is especially responsive to narrow rows (solid-seeding in 17- to 25-cm row widths) and high seeding rates (562,000 to 750,000 seeds/ha in 17-cm rows). Although Charleston will yield well in 75-cm row widths, it is recommended primarily for solid seeding to maximize yields.

Charleston has purple flowers, tawny pubescence, tan pods and shiny yellow seeds with a black hilum. It can readily be distinguished from other Maturity Group III semidwarf varieties by its purple flowers.

Most Similar Variety

The variety most similar to Charleston is another Group III determinate semidwarf variety, Hobbit 87. Charleston can be distinguished from Hobbit 87 by its purple flowers, later maturity, and Phytophthora susceptibility. Hobbit 87 has white flowers and is resistant to most prevalent races of Phytophthora.

Uniform Regiona	7 Test III	1989-90 (Moan	of //8	locations
AUTIOUM VESTOUS	I lest lil.	. 1909-YU (Mean	OT 48	locationsi

Variety	Yield	Matur- ity	Lodging	Height	Seed Quality	Seed Size	Composition Protein Oil	
	(kg/ha)	(date)	(score)1	(cm)	(score)2	(g/100)	(%)	(%)
Charleston	52.8	9/29	1.5	60	1.6	15.8	40.7	20.6
Hobbit	49.0	9/27	1.2	55	1.8	16.2	39.1	22.1

 $^{^{1}}$ 1 = erect to 5 = prostrate.

 $^{^{2}}$ 1 = very good to 5 = very poor.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

EXHIBIT C

PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

	the second secon		The second secon
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME	
Ohio Agricultural Research and			
Development Center and USDA-ARS	HC85-6724	Charleston	
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code			CIAL USE ONLY
Ohio Agricultural Research and Developme	ent Center	PVPO NUMBER	
1680 Madison Avenue		97001	2.4
Wooster, OH 44691		93001	
Choose the appropriate response which characterizes the varin your answer is fewer than the number of boxes provided, Starred characters ** are considered fundamental to an adequate when information is available.	place a zero in the first box w	hen number is 9 or le	ss (e.g., 0 9).
1. SEED SHAPE:			A CONTRACTOR OF THE CONTRACTOR
			September 1
	l ^I l		
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	2 = Spherical Flattened (4 = Elongate Flattened (
Z. SEED COAT COLOR: (Mature Seed)	- · · · · · · · · · · · · · · · · · · ·		
1 = Yellow 2 = Green 3 = Brown	4 = Black, 5 = Other (Specify/	
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)			
a. Secto COAT COSTER: [mature Fland Shelled Seed]			•
2 1 = Dull ("Corsoy 79"; "Braxton") 2 = Shiny ("Nebsoy	/; *Gasoy 17')		
4. SEED SIZE: (Mature Seed)			
1 6 Grams per 100 seeds			* * .
1 0 Grand per 100 seeds			
5; HILUM COLOR: (Mature Seed)			
6 1 = Buff 2 = Yellow 3 = Brown 4	= Gray 5 = Imperfect Blac	k 6 = Black	7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)			
1 = Yellow 2 = Green			
7. SEED PROTEIN PEROXIDASE ACTIVITY:			· · · · · · · · · · · · · · · · · · ·
1 = Low 2 = High			
	***	· · · · · · · · · · · · · · · · · · ·	
8. SEED PROTEIN ELECTROPHORETIC BAND:			
1 = Type A (SP1 ⁸) 2 = Type B (SP1 ^b)			
9. HYPOCOTYL COLOR:			
1 = Green only ('Evans'; 'Davis') 2 = Green with	bronze band below cotyledons ("V	loodworth"; "Tracy")	
3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'C	Coker Hampton 266A')		art e
0. LEAFLET SHAPE:			
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)		

11. LEAFLET SIZE:		750017
1 = Small ('Amsoy 71': 'A5312')	াক্ষ্যিক প্রথম সাম্প্রকার স্থানিক স্থান করে। বিশ্বস্থান বিশ্বস্থান স্থান বিশ্বস্থান স্থান বিশ্বস্থান স্থান স্থান স্থান স্থান স্থান স্থান স্থান স্থান স্থান	1 1 1 1 1 K
2 3 = Large ('Crawford'; 'Tracy')	2 = Medium (*Corsoy 79'; *Gasoy 17')	
12. LEAF COLOR:		
1 = Light Green (Weber'; York')		
3 = Dark Green ('Gnome': 'Tracy')	2 = Medium Green ('Corsoy 79'; 'Braxton')	· · · · · · · · · · · · · · · · · · ·
★ 13. FLOWER COLOR:		
2 1 = White 2 = Purple	4	
2 1 = White 2 = Purple		
★ 14. POD COLOR:		
	e formation and the second	
1 = Tan 2 = Brown	3 = Black	
* 15. PLANT PUBESCENCE COLOR:		A.27
2 1 = Gray 2 = Brown (Tawn	Marie and the second	
16. PLANT TYPES:	Williams, Milliams and Company	and the second second
1 = Slender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 ~ Intermediate ('Amcor'; 'Braxton')	
3 - bosity (Gnome'; 'Govan')		
17. PLANT HABIT:		
1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved	2 = Semi-Determinate (Will')	
	· reacall }	
18. MATURITY GROUP:		A STATE OF THE STA
(
0 6 1-000 2-00 3-0 9-VI 10-VII 11-1	2-11 6=111 7=1	v 8= v
•	VIII 12 = IX 13 = X	and the second of the second o
19. DISEASE REACTION: (Enter 0 = Not Tested; 1	# Stirramalidae 2 - D. Jan 1	
BACTERIAL DISEASES:	esseptions, 2 - Resistant)	
4 🗍		
Bacterial Pustule (Xanthomonas phaseoli	i var. sojensis)	
Bacterial Blight (Pseudomonas glycinea)		
Wildfire (Pseudomonas tabaci)	• •	
FUNGAL DISEASES:		
Brown Spot (Septoria glycines)		
Frogeye Leaf Spot (Cercospora sojina)	, and the second second	
0 Race 1 0 Race 2 0 1	Race 3 0 Race 4 0 Race 5	Other (Specify)
Target Spot (Corynespora cassiicola)		- topology / to a to a to a to a
Downy Mildew (Peronospora trifoliorum v	rar. manshurica)	
Powdery Mildew (Microsphaera diffusa)		and the second s
Brown Stem Rot (Cephalosporium gregatu.	m)	and the second s
. —		
Stem Canker (Diaporthe phaseolorum var.	caulivora)	

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·	and the second second second	ION: (Enter 0 = Not Tested; 1 = Susceptible; 2	Resistant) (Continued)	Color of Travel Street	/C-Y/ (\$)
	FUNGAL DISE	ASES: (Continued)	anten jaron 1919 erren en trikkelen i 1924. Politiko		
	2 Pod and	Stem Blight <i>(Diaporthe phaseolorum var; sojae)</i>	A Terrent Control of the Control of		
	2 Purple Se	ed Stain (Cercospora kikuchii)			Makakan Araba da Kabupatèn Balangan Kabupatèn Balangan
	0 Rhizocto	nia Root Rot (Rhizoctonia solani)			en e
	Phytopht	hora Rot (Phytophthora megasperma var. sojae)	•		Manager (n. 1866) Manager (n. 1866)
*	1 Race 1	0 Race 2 0 Race 3 1	Race 4 0 Race	5 0 8 1	101 -
T	() Race 8	0 Race 9 0 Other (Specify)		5 [U] Race 6 [Race 7
	ست VIRAL DISEASI			ten e ser e e e e e e e	
T.		(Tobacco Ringspot Virus)			
ř					
*		osaic (Bean Yellow Mosaic Virus)			
, F	7	osaic (Cowpea Chlorotic Virus)			
<u>[</u>	 1	(Bean Pod Mottle Virus)			
* [1 Seed Mottl	e (Soybean Mosaic Virus)	•		*
N	IEMATODE DIS	EASES:			•
٠ ـــ	Soybean C	yst Nematode (Heterodera glycines)			
* [Race 1	1 Race 2 1 Race 3 1	Race 4 Other	(Specify)	
	D Lance Nem	atode (Hopiolaimus Colombus)	_		
* [Southern B	oot Knot Nematode (Meloidogyne incognita)			
* [- -	oot Knot Nematode (Meloidogyne Hapla)			
	Ξ.	t Knot Nematode (Meloidogyne arenaria)			
	Beniform N	ematode (Rotylenchulus reniformis)			
[0	=	SEASE NOT ON FORM (Specify):		·	
		CASE NOT ON FORM (Specify):			
20. PHYS	SIOLOGICAL R	ESPONSES: (Enter 0 = Not Tested; 1 = Suscep	rtible; 2 = Resistant)		
★ 2	1 .	is on Calcareous Soil			
	Other (Speci	fyl			
21. INSE		(Enter 0 = Not Tested; 1 = Susceptible; 2 = Re			
	1	n Beetle (Epilachna varivestis)	acunty		·
0	7	Hopper (Empoasca fabae)			
	Other (Specif				
23 18/010	-				
		ARIETY MOST CLOSELY RESEMBLES THA	T SUBMITTED.	-	
Plant S	RACTER	NAME OF VARIETY	CHARACTER	NAME OF VA	ARIETY
Leaf St		Sprite 87	Seed Coat Luster	Hobbit 87	
Leaf Co		Hobbit 87	Seed Size	Hobbit 87	
Leaf Siz		Hobbit 87	Seed Shape	Hobbit 87	
		Hobbit 87	Seedling Pigmentation	Hobbit 87	
FORM LMG	S-470-57 (6-83)				

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

	T								
VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET.SIZE		SEED CONTENT		SEED SIZE G/100	NO.
				CM Width	CM Length	% Protein	× Oii	SEEDS	SEEDS/
Charleston							1		POD
<u> </u>	129	1.5	60	-	-	41	21	15.8	2.5
Hobbit 87 Name of Similar Variety	127	1.2	55	_		39	22	16.2	2.5
PUBLICATIO	100 100 500		220	المتر حيث المسا	<u></u>		155 1	10.2	1 4.5

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell, 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3: Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

Charleston

Exhibit E

Basis of Ownership

Charleston soybean cultivar is considered jointly owned by the Ohio Agricultural Research and Development Center of The Ohio State University (OARDC-OSU) and the USDA Agricultural Research Service (ARS). The basis for this position is (1) the individual F4-derived line, which eventually was released as Charleston, was selected at the OARDC, Wooster, OH, in 1985, by Dr. R. L. Cooper, USDA-ARS Research Agronomist and Adjunct Professor in the Department of Agronomy, OARDC-OSU (2) the line was tested extensively in Ohio at OARDC-OSU Branch Experiment Stations from 1986-1991 by Dr. Cooper, and (3) the line (HC85-6724) was entered as an Ohio breeding line in regional tests from 1988 to 1991 without claims being made upon it. The seed supply was continuously under the control of OARDC-OSU and USDA-ARS until the distribution of seed to the Foundation Seed organizations of those states in which the landgrant institutions were cooperators in the public release of Charleston. The seed will become publicly available in the spring of 1994 after inspection and tagging as certified seed.

8



Agricultural Research Service Midwest Area

Agronomy Dept. OSU/OARDC 1680 Madison Ave. Wooster, OH 44691

PLANT VARIETY PROTECTION OFFICE

Gentlemen:

Subject: Application No.

Variety and Kind: 'Charleston', Soybean

As provided in section 83(a) of the Plant Variety Protection Act, 7 U.S.C. 2321, we request that the certificate on the above variety be issued with a notation on the certificate that the right to exclude others from selling, offering for sale, reproducing, importing or exporting the variety covered by this Certificate, or using it in producing a hybrid or different variety is <u>waived</u>, except that this waiver shall not apply to Breeders Seed, Foundation Seed, labeling requirements, and blending limitations.

It has been agreed that the Certificate should be issued in the name(s) of:

Ohio Agricultural Research & Development Center, The Ohio State

University and USDA-Agricultural Research Service

1/4/93

(Date)

(Signature)